

Buffalo Forge Co.  
1911

## BUFFALO BLACKSMITHS' POST DRILLS

## BALL BEARING

No. 90

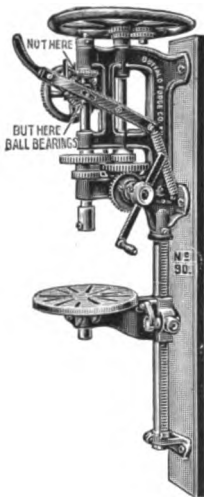


Fig. 613A

No. 105

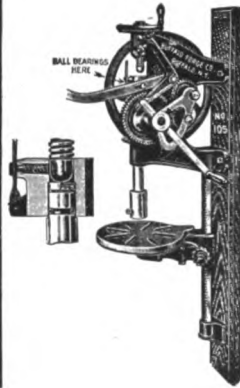


Fig. 613B

No. 203



Fig. 613C

No. 204

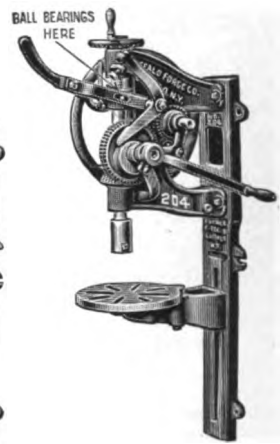


Fig. 613D

Number .....	*90	*90A	*90B	*90C	*90D	†105	†201	†202	†203	†204
Size Hole will Drill..... inches	1 $\frac{3}{4}$	1 $\frac{3}{4}$	1 $\frac{3}{4}$	1 $\frac{3}{4}$	1 $\frac{3}{4}$	1 $\frac{1}{2}$	1	1	1 $\frac{1}{2}$	1 $\frac{1}{2}$
Drills to Center of Circle. .	22	22	22	22	22	18	18	18	23	23
Takes Straight Drill Shank. "	4 $\frac{1}{4}$	4 $\frac{1}{4}$	4 $\frac{1}{4}$	4 $\frac{1}{4}$	4 $\frac{1}{4}$	1 $\frac{1}{2}$	1 $\frac{1}{2}$	1 $\frac{1}{2}$	1 $\frac{1}{2}$	1 $\frac{1}{2}$
Diameter of Spindle..... "	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{4}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{4}$	1 $\frac{1}{4}$
Length Feed Run..... "	6	6	6	6	6	4	3 $\frac{1}{4}$	3 $\frac{1}{4}$	4	4
Length Drill over all..... "	74	74	74	74	74	50	44	44	48	50
Size of Pulley..... "	..	..	..	..	..	..	5 $\frac{1}{2}$	5 $\frac{1}{2}$	8	8
Weight..... pounds	325	325	325	325	325	145	90	92	140	145
Price, Hand Power, Lever Feed, each	55.00	..	..	..	..	38.00	23.00	25.00	28.00	30.00
" with Tight and Loose Pulley. .	..	60.00	..	..	..	42.00	26.00	29.00	32.00	34.00
" " " " and	..	..	..	..	..	..	..	..	..	..
Countershaft..... "	..	..	70.00	..	..	..	..	..	..	..
" with Cone Pulley..... "	..	..	..	60.00	..	..	..	..	..	..
" with Cone Pulley and Countershaft	..	..	..	..	70.00	..	..	..	..	..

\*These drills equipped with planetary gears to the flywheel which give flywheel 3 times as great speed as the old style. Ball-bearings placed just beneath flywheel and at end of spindle which greatly reduces the friction. Automatic, hand and lever feed, two speeds for drilling and three for automatic feed. On special order bored for  $\frac{5}{8}$  or  $\frac{1}{2}$ -inch.

†All parts jig made and interchangeable. Two speeds, slotted and adjustable table, lever feed, quick return, pin clutch, adjustable automatic feed.

‡These drills are provided with a rigid, ribbed iron back. On special order will be bored for  $\frac{5}{8}$  or  $\frac{1}{4}$  inch.

DO NOT CUT CATALOGUE. ORDER BY FIGURE NUMBER.

# BUFFALO BLACKSMITHS' POST DRILLS

## BALL BEARING

No. 60

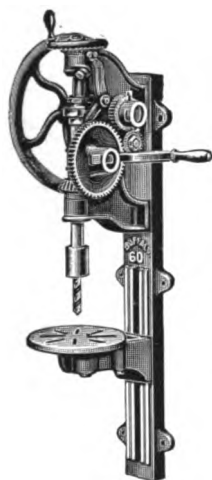


Fig. 651A

No. 61B

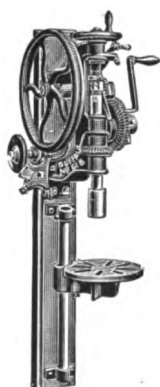


Fig. 651B

No. 68

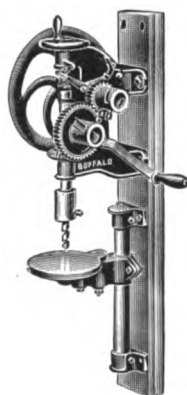


Fig. 651C

No. 75

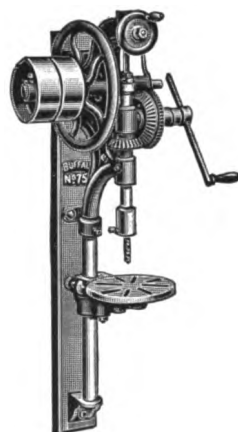


Fig. 651D

Number.....	60	61B	68	69	71	74	75
Size of Hole Will Drill.....inches	1 1/4	1 1/4	1	7/8	1 1/2	1 1/4	1 1/4
Drills to Center of Circle..... "	17	16	15	10	12	15	15
Takes Straight Shank Drills..... "	1/2	1/2	1/2	1/2	1/2	1/2	1/2
Length Feed Run..... "	4 1/4	4 1/4	3 1/4	3 1/4	5	5	5
Length Drills over all..... "	42	48	44	35	54	60	60
Weight..... pounds	135	125	100	54	130	200	210
Price, Hand Power..... each	32.00	34.00	22.00	12.50	36.00	48.00	52.00
" With Tight and Loose Pulleys "	36.00	38.00	26.00	.....	40.00	52.00	56.00

No. 60 Iron Back. For hand power only.

" 68 Wood " " " " "

Nos. 61B and 74. Hand power only with emery wheel.

" 69 Hand power only.

" 71 Automatic feed. Triple gear.

" 75 Automatic feed. Triple gear, tight and loose pulleys.

WHEN ORDERING BY FIGURE NUMBER, PLEASE GIVE THE PAGE NUMBER ALSO.

## BUFFALO PORTABLE FORGES

No. 0. BLACKSMITHS' FORGE

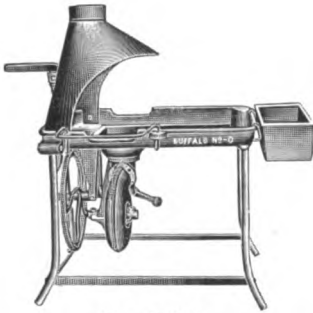


Fig. 6927A

No. 1. MACHINISTS' FORGE



Fig. 6927B

Number of Forge.....	0	1	2
Price, without Water Tank.....each	50.00	40.00	42.00
“ with “ “.....“	54.00	.....	.....
Size of Hearth.....inches	28 x 40	21 x 27	21 x 27
Height to Top of Bowl.....“	32	31	31
Diameter of Fan.....“	14	10	10
Weight without Tank.....pounds	340	150	155

No. 2 Forge same as No. 1 with closed hood. No. 0 Forge is guaranteed to produce a welding heat on 3-inch iron in five minutes, and 4-inch iron in ten minutes.

No. 3. BOILER MAKERS' FORGE

No. 4. HALF OPEN HOOD

No. 5. RIVET FORGE



Fig. 6927C



Fig. 6927D



Fig. 6927E

Number of Forge.....	3	4	5	6
Price.....each	36.00	27.00	24.00	30.00
Diameter of Hearth.....inches	21 x 27	18	18	18
Height to Top of Bowl.....“	31	33	33	33
Diameter of Fan.....“	10	6	6	6
Weight.....pounds	145	75	70	80

\*No. 6 Forge same as No. 4, with closed hood.

DO NOT CUT CATALOGUE. ORDER BY FIGURE NUMBER.

## BUFFALO PORTABLE FORGES

WITH GEARED HAND BLOWERS

No. 650

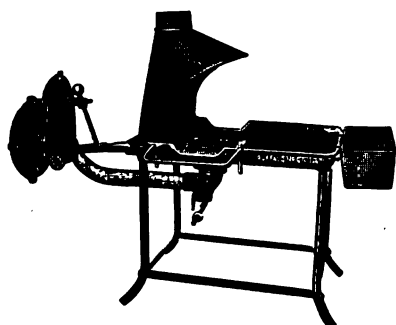


Fig. 4673A

No. 651

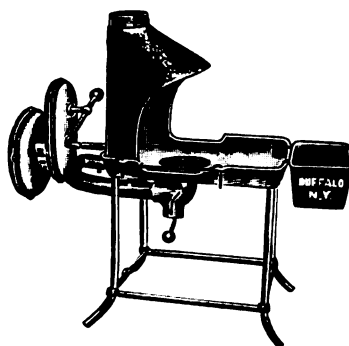


Fig. 4673B

Number.....	650	651
Size of Fire Pan.....inches	28x40	23x30
Height to Top of Fire Pan....."	32	30
Diameter of Fan Case....."	12	12
Weight.....pounds	275	195
Price, with Half Hood.....each	50.00	40.00
" " " and Water Tank....."	54.00	44.00
" " Closed Hood....."	.....	42.00
" " Dash....."	.....	37.00

## NOS. 626 AND 627, RIVET FORGES

Number.....	626 and 627	626A and 627A	626B and 627B
Diameter of Fire Pan....inches	18	22	24
Height to Top Fire Pan. "	32	32	32
Diameter of Fan Case... "	12	12	12
Weight, Half Hood....pounds	120	130	140
" Closed Hood.... "	130	140	150
Price, Half Hood.....each	38.00	43.00	45.00
" Closed " .....	40.00	45.00	50.00



Fig. 4673C

No. 627 Series is fitted with Closed Hood.

All Buffalo Forges can be fitted with electric motors if customer so desires at special prices.

WHEN ORDERING BY FIGURE NUMBER, PLEASE GIVE THE PAGE NUMBER ALSO.

## BUFFALO PORTABLE FORGES

No. 625  
WITH GEARED HAND BLOWER

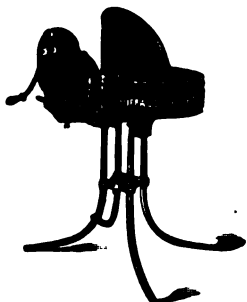


Fig. 4674A

## RIVET FORGES

No. 625E  
WITH SPECIAL ELECTRIC BLOWER



Fig. 4674B

Number .....	625	625A	625B	*625E
Diameter of Fire Pan .....	18	22	24	18
Height to Top of Fire Pan .....	32	32	32	32
Depth of Fire Pan .....	6	6	6	6
Diameter of Fan Case .....	12	12	12	12
Weight .....	110	120	130	130
Price .....	35.00	38.00	41.00	.....
" with Direct Current Motors .....	.....	.....	.....	40.00
" " Alternating " " .....	.....	.....	.....	44.00

If desired with Ring Base, add 2.00.

\*In ordering always specify whether direct or alternating current is desired.

## COMPRESSED AIR FORGES

No. 22C



Fig. 4674C

No. 23C



Fig. 4674D

Number.....	22C	22AC	22BC	22CC	22DC	23C	23AC	23BC	23CC	23DC
Diam. of Fire Pan...inches	18	20	22	24	28	24	18	20	22	28
Height to Top of Fire Pan "	32	32	32	32	32	32	32	32	32	32
Depth of Fire Pan... "	6	6	7	7	7	10	6	6	7	10
Weight ....pounds	40	43	47	50	60	90	50	60	75	100
Price.....each	20.00	22.00	24.00	26.00	30.00	28.00	22.00	24.00	26.00	32.00

These Forges will operate perfectly on from 5 to 10 pounds pressure of compressed air.  
The expense of operating for one year is 5.00.

DO NOT CUT CATALOGUE. ORDER BY FIGURE NUMBER.

# BUFFALO GEARED HAND BLOWERS

No. 200

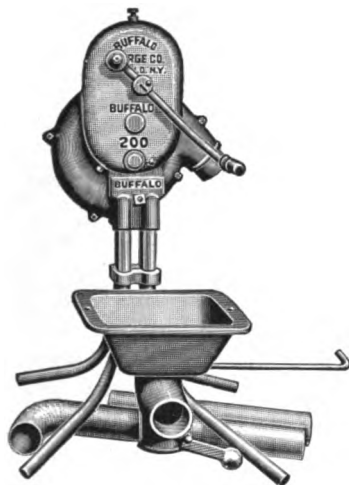


Fig. 4676A

No. 201

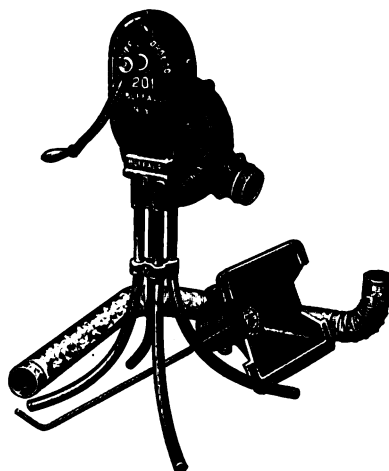


Fig. 4676B

Number . . . . .	200	201
Height to Crank . . . . . inches	41	41
Diameter of Fan Case . . . . . "	12	12
Size of Tuyere . . . . . "	11x9x4	11½x9x4
Weight of Blower . . . . . pounds	72	72
" " Tuyere . . . . . "	36	36
Price, with H. H. Tuyere . . . . . each	37.00	37.00
" " without Tuyere . . . . . "	35.00	35.00
" H. H. " only . . . . . "	5.00	5.00

## No. 98 HAND BLOWER



Fig. 4676C

Number . . . . .	98 and 99
Height to Crank Shaft, Adjustable . . inches	38 to 44
Diameter of Fan Case . . . . . "	12
Shipping Weight, with Tuyere . . . pounds	95
" " without Tuyere . . . . . "	80
Price, without Tuyere . . . . . each	33.00
" " with Regular Tuyere . . . . . "	.....
" " Side and Center Blast . . . . . "	.....
Tuyere No. H. H. . . . . . "	35.00

Any of the above Blowers will be furnished with Single Column Cast Iron Stand without extra cost.

WHEN ORDERING BY FIGURE NUMBER, PLEASE GIVE THE PAGE NUMBER ALSO.

## POSITIVE PRESSURE BLOWERS

HAND BLOWER

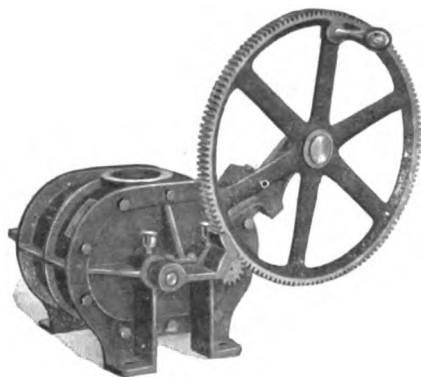


Fig. 5531A

POWER BLOWER

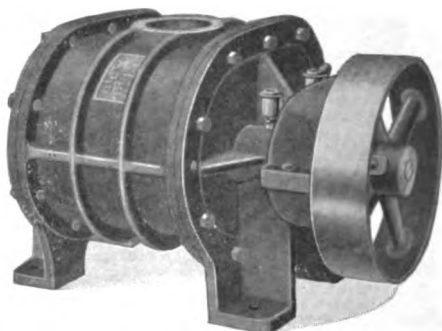


Fig. 5531B

## HAND BLOWERS

Number	Capacity per Revolution Cubic Inches	Diameter of Outlet Inches	Diameter of Hand Wheel Inches	Size of Platform Required Inches	Shipping Weight Pounds	Price Each
35	173	2½	14	7½ x 10	100	24.00

These blowers are built for bottom discharge.

## POWER BLOWERS

Number	Capacity per Revolution Cubic Inches	Diameter of Outlet Inches	Revolutions per Minute	Size of Pulley Inches	Shipping Weight Pounds	Price with Single Pulley Each	Price with Tight and Loose Pulleys Each
35	173	2½	800 to 1200	7 x 1½	90	22.50	24.00
40	288	2½	500 " 800	8 x 2	135	35.00	37.00
50	376	3	300 " 600	10 x 2½	200	60.00	62.50

The power required is proportional to the pressure and is based on ½ horse power to displace 100 cubic feet of free air per minute against a pressure of 1 pound per square inch. For laundries, sand blast, forges, gas furnaces, oil furnaces, etc.

These Blowers have steel shafts and bronze bearings.

All parts are interchangeable.

Standard machines are built for Top Discharge, but can be made for Bottom Discharge, if desired.

The hand blower is built for bottom discharge.

DO NOT CUT CATALOGUE. ORDER BY FIGURE NUMBER.



## BUFFALO STEEL PRESSURE BLOWERS



Fig. 6926A

Number	Height of Blower Inches	Diameter of Outlet Inches	Diameter of Pulley Inches	Face of Pulley Inches	Price without Counter-shaft Each	Price with Counter-shaft Each	ADJUSTABLE BED	
							Price with Bed but without Counter-shaft	Price with Bed and with Counter-shaft
1	12 $\frac{1}{2}$	3 $\frac{1}{2}$	2 $\frac{1}{4}$	1 $\frac{3}{4}$	12.00	20.00	.....	.....
2	15 $\frac{1}{4}$	4	2 $\frac{3}{4}$	2 $\frac{1}{4}$	18.00	28.00	.....	.....
3	19 $\frac{1}{4}$	4 $\frac{3}{4}$	3	2 $\frac{5}{8}$	26.00	38.00	.....	.....
4	23 $\frac{1}{2}$	5	4	3	36.00	52.00	.....	.....
5	25 $\frac{1}{4}$	5 $\frac{3}{8}$	4 $\frac{1}{4}$	3	44.00	64.00	.....	.....
6	29 $\frac{3}{4}$	6 $\frac{1}{4}$	4 $\frac{1}{2}$	3 $\frac{1}{2}$	55.00	80.00	90.00	120.00
7	33 $\frac{1}{4}$	7 $\frac{1}{4}$	5	4 $\frac{1}{2}$	70.00	105.00	100.00	135.00
8	38	8 $\frac{3}{4}$	6	4 $\frac{1}{2}$	90.00	135.00	130.00	175.00
9	44	10	7	5	115.00	175.00	170.00	230.00
10	56	12 $\frac{1}{4}$	8	5 $\frac{3}{4}$	160.00	240.00	265.00	350.00
11	65 $\frac{1}{8}$	14 $\frac{1}{2}$	8 $\frac{1}{2}$	6 $\frac{1}{4}$	225.00	315.00	330.00	435.00
11 $\frac{1}{2}$	75 $\frac{5}{8}$	16 $\frac{1}{2}$	10	7	275.00	375.00	380.00	500.00
12	75 $\frac{5}{8}$	18	10	8	325.00	435.00	475.00	625.00

Nos. 1 to 6 Blowers, inclusive, have one pulley; Nos. 7 to 12 have two pulleys.

## TABLE OF SPEEDS AND CAPACITIES AS APPLIED TO CUPOLAS

Number of Blower	Diameter Inside of Cupola Inches	Pressure in Ounces	Speed No. of Revolutions per Minute	Melting Capacity in Pounds per Hour	Cubic Feet of Air Required per Minute	Pressure in Ounces	Speed No. of Revolutions per Minute	Melting Capacity in Pounds per Hour	Cubic Feet of Air Required per Minute
4	18	8	4732	1545	666	9	5030	1647	717
5	23	8	4209	2321	773	10	4726	2600	867
6	27	8	3660	3093	951	10	4108	3671	1067
7	32	8	3244	4218	1486	10	3642	5000	1668
8	37	8	2948	7500	2199	10	3310	8800	2469
9	42	10	2785	10000	3000	12	3260	12000	3000
10	48	10	2195	14000	4500	12	2413	17000	5000
11	60	12	1952	22000	6500	14	2116	26000	8000
11 $\frac{1}{2}$	70	12	1647	30000	8500	14	1797	35000	10000
12	84	12	1625	40000	10000	14	1775	45000	12000

WHEN ORDERING BY FIGURE NUMBER, PLEASE GIVE THE PAGE NUMBER ALSO.

## STEEL PLATE SINGLE AND DOUBLE PLANING MILL EXHAUSTERS

SINGLE

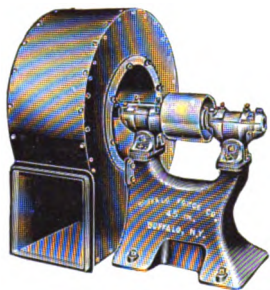


Fig. 9599A

DOUBLE

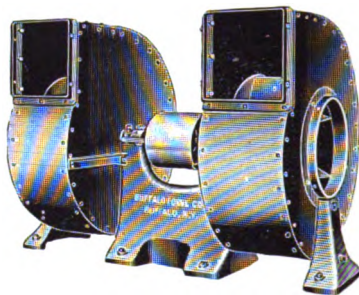


Fig. 9599B

### SINGLE

Size Inches	Diameter of Inlet Inches	SIZE OF OUTLET INCHES		SINGLE FAN PULLEY INCHES		Width of Fan Inches	Price Each
		Width	Height	Diameter	Face		
30	12	11	11	6	4 $\frac{1}{2}$	32 $\frac{1}{4}$	55.00
35	14	12 $\frac{1}{2}$	12 $\frac{1}{2}$	7	5 $\frac{1}{2}$	36 $\frac{1}{4}$	70.00
40	16	14	14	8	6 $\frac{1}{2}$	39 $\frac{5}{8}$	90.00
45	18	16	16	9	7 $\frac{1}{2}$	43 $\frac{1}{2}$	115.00
50	20	18	18	10	8 $\frac{1}{2}$	47 $\frac{1}{4}$	150.00
55	22	19 $\frac{1}{2}$	19 $\frac{1}{2}$	11	9 $\frac{1}{2}$	51	185.00
60	24	21	21	12	10 $\frac{1}{2}$	54	200.00
70	28	25	25	14	11 $\frac{1}{2}$	60 $\frac{3}{4}$	250.00
80	32	28	28	16	12 $\frac{1}{2}$	64 $\frac{3}{4}$	300.00

### DOUBLE

Size Inches	Diameter of Inlet Inches	SIZE OF OUTLET INCHES		DOUBLE FAN PULLEY INCHES		Width of Fan Inches	Price Each
		Width	Height	Diameter	Face		
30	12	11	11	6	6 $\frac{1}{2}$	47 $\frac{3}{8}$	90.00
35	14	12 $\frac{1}{2}$	12 $\frac{1}{2}$	7	7 $\frac{1}{2}$	52 $\frac{1}{4}$	100.00
40	16	14	14	8	8 $\frac{1}{2}$	58 $\frac{1}{2}$	130.00
45	18	16	16	10	9 $\frac{1}{2}$	64 $\frac{1}{2}$	170.00
50	20	18	18	12	10 $\frac{1}{2}$	70 $\frac{3}{4}$	210.00
55	22	19 $\frac{1}{2}$	19 $\frac{1}{2}$	13	11 $\frac{1}{2}$	75 $\frac{7}{8}$	275.00
60	24	21	21	14	12 $\frac{1}{2}$	82	325.00
70	28	25	25	16	14	92 $\frac{1}{2}$	400.00
80	32	28	28	20	16	100 $\frac{1}{2}$	500.00

These exhausters have a reversible housing; adjustable to either hand and to any direction of discharge. All the adjustments are made in a few minutes and on the outside of the housing. To change the direction of discharge just loosen the eight bolts in the ring of each pedestal; then revolve the housing until the discharge points in the desired direction. To change the hand remove these bolts, loosen the set screw holding the fan to the shaft, then shift the pedestals. This operation is quickly and easily done.

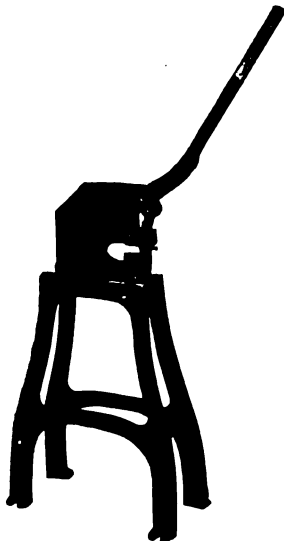
DO NOT CUT CATALOGUE. ORDER BY FIGURE NUMBER.

## BUFFALO PUNCHES, SHEARS, AND ANGLE CUTTERS

**PUNCH  
No. 12B**

**COMBINED PUNCH AND SHEARS  
No. 2B**

**ARMOR PLATE  
ANGLE CUTTER**



**Fig. 6762A**



**Fig. 6762B**



**Fig. 6762C**

### PUNCHES AND SHEARS

Number .....	*11	*11B	12	12B	13
Capacity .....	$\frac{1}{8} \times \frac{1}{8}$	$\frac{1}{8} \times \frac{1}{8}$	$\frac{1}{8} \times \frac{1}{8}$	$\frac{1}{8} \times \frac{1}{8}$	$\frac{1}{4} \times \frac{1}{4}$
Size Punches Furnished .....	$\frac{3}{32}$ and $\frac{1}{8}$	$\frac{3}{32}$ and $\frac{1}{8}$	$\frac{3}{32}$ and $\frac{1}{8}$	$\frac{3}{32}$ and $\frac{1}{8}$	$\frac{1}{8}$ and $\frac{1}{4}$
Depth Throat .....	4	4	4	4	4
Weight .....	26	26	26	26	80
Price, Front Lever, no Stand... each	15.00	.....	.....	.....	.....
“ Rear “ “ “ “	.....	15.00	.....	.....	.....
“ Front “ with “ “	.....	.....	20.00	.....	40.00
“ Rear “ “ “ “	.....	.....	.....	20.00	.....
Number .....	14	†13B	†14B	†15B	2B
Capacity .....	$\frac{3}{8} \times \frac{3}{8}$	$\frac{1}{4} \times \frac{1}{4}$	$\frac{3}{8} \times \frac{3}{8}$	$\frac{5}{8} \times \frac{1}{2}$	$\frac{1}{4} \times \frac{1}{4}$
Size Punches Furnished .....	$\frac{5}{16}$ and $\frac{3}{8}$	$\frac{1}{8}$ and $\frac{1}{4}$	$\frac{5}{16}$ and $\frac{3}{8}$	$\frac{1}{4}$ , $\frac{3}{8}$ & $\frac{1}{2}$	$\frac{1}{8}$ , $\frac{3}{16}$ & $\frac{1}{4}$
Depth Throat .....	$4\frac{1}{4}$	4	$4\frac{1}{4}$	$5\frac{1}{2}$	4
Weight .....	130	80	130	245	125
Price, Front Lever, with Stand... each	50.00	.....	.....	.....	.....
“ Rear “ “ “ “	.....	40.00	50.00	70.00	50.00

\*Mounted on wood blocks for bench use. Balance of punch stands are cast iron, armor plate frame, drop forged steel fittings. Nos. 13 and 14 on special order built with rear lever. †Back lever similar to No. 2B. Nos. 3B and 4B same construction as 2B, but larger capacity.

### ARMOR PLATE ANGLE CUTTERS

Cuts angles  $2\frac{1}{2} \times 2\frac{1}{2} \times \frac{1}{4}$  inches. Weight 200 pounds. Armor plate frame, crucible steel knives, forged steel levers and links. Price, each, 40.00

DO NOT CUT CATALOGUE. ORDER BY FIGURE NUMBER.

# ARMOR PLATE SLITTING SHEARS

No. 2



Fig. 9498A

No. 22

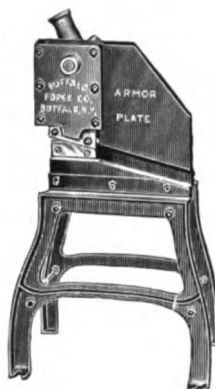


Fig. 9498B

Number .....	2	3	21	22
Shears Sheet Metal, Gauge No. ....	10	8	.....	.....
Shears Plates, Thickness .....	..... inches	.....	.....	.....
Cuts Flat Bars .....	$\frac{1}{4} \times 3\frac{1}{4}$	$\frac{5}{16} \times 3\frac{1}{2}$	$2\frac{1}{2} \times \frac{3}{16}$	$2\frac{1}{2} \times \frac{3}{16}$
Cuts Tees .....	"	$1\frac{1}{2} \times 1\frac{1}{2} \times \frac{3}{16}$	.....	.....
Weight .....	pounds 160	200	75	115
Price .....	each 60.00	80.00	60.00	80.00

## PYGMY



Fig. 9498C

Number .....	0
Shears Sheet Metal, Gauge No. ....	20
Cuts Flat Bars .....	$\frac{1}{16} \times 3$
Weight .....	pounds 50
Price .....	each 20.00

Stop for just a moment and think what it means to have your punches, shears, angle and tee cutters, etc., built of armor plate steel instead of cast iron. No more cast iron flaws or broken machines because it happens to be a cold morning.

Armor-plate steel is the toughest and strongest material known. Unlimited strength and the highest degree of efficiency, combined with lighter weight make these the best machines on earth.

They are absolutely indestructible and are equipped with the highest power leverage known to mechanical science. They are accurate in their work, easy in operation and can always be depended upon to perform any work, from the lightest up to their maximum capacity.

The tensile strength of cast iron is 10,000 pounds, and of armor-plate steel 75,000 pounds. Think this over. It means a considerable saving in weight and space and a tremendous gain in strength and efficiency.

Armor-plate steel, with its extraordinary strength and elasticity, is well adapted to meet the sudden heavy and irregular strains this class of tool is subjected to.